

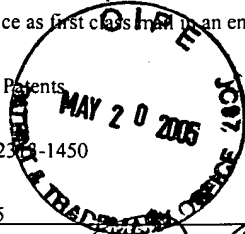
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On May 17, 2005

TOWNSEND and TOWNSEND and CREW LLP

By: Stephanie J. Whitehurst



PATENT  
Attorney Docket No.: 02307K-085041US  
Client Reference No.: 1993-239-5

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

Charo et al.

Application No.: 10/791,166

Filed: March 1, 2004

For: **MAMMALIAN MONOCYTE  
CHEMOATTRACTANT PROTEIN  
RECEPTORS**

Confirmation No.: 3893

Examiner: Nichols, Christopher J.

Art Unit: 1647

INFORMATION DISCLOSURE  
STATEMENT UNDER 37 CFR §1.97 and  
§1.98

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

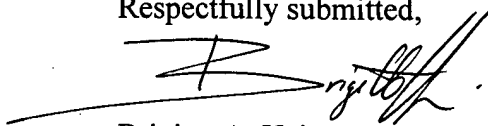
Sir:

The references cited on attached form PTO/SB/08B are being called to the attention of the Examiner. In accordance with 37 CFR §1.98(d), copies of the references can be found in Application No. 09/625,573 filed July 25, 2000 now U.S. Patent No. 6,730,301 issued May 4, 2004 (Attorney Docket No. 02307K-085040US). It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

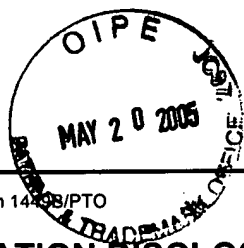
Applicant believes that no fee is required for submission of this statement. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Brigitte A. Hajos', is written over a horizontal line.

Brigitte A. Hajos  
Reg. No. 50,971

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60226025 v1



Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 3

**Complete if Known**

Application Number	10/791,166
Filing Date	March 1, 2004
First Named Inventor	Charo, Israel F.
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	02307K-085041US

**U.S. PATENT DOCUMENTS+**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	US-5,413,778	05-09-1995	Kunkel et al.	
	AB	US-5,460,955	10-24-1995	Mosher et al.	
	AC	US-5,547,854	08-20-1996	Donahoe et al.	
	AD	US-5,776,729	07-07-1998	Soppet et al.	
	AE	US-6,084,075	07-04-2000	Lind et al.	
	AF	US-6,312,689	11-06-2001	LaRosa	
	AG	US 2002/0038469	03-28-2002	Dean et al.	
	AH	US-6,403,767	06-11-2002	Graham et al.	
	AI	US-2002/0150877	10-17-2002	Augustus	
	AJ	US-2003/0113798	06-19-2003	Burmer et al.	
	AK	US-2003/0186889	10-02-2003	Forssmann et al.	
	AL	US 6,730,301 B1	05-04-2004	Charo et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	AM	WO 94/07542	04-1994			<input type="checkbox"/>

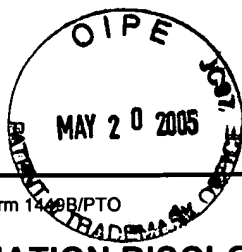
**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	AN	AUSUBEL, F.M. "Current Protocols in Molecular Biology", 1994, Wiley & Sons, New York Vol. 1, pp. 6.11.11-6.11.16	
	AO	BORK, et al.; "Go hunting in sequence databases but watch out for the traps"; 1996, <u>Trends in Genetics</u> , Vol 12, pp.425-427.	
	AP	BORK.; "Powers and Pitfalls in Sequence Analysis: The 70% Hurdle"; 2000, <u>Genome Research</u> , Vol.10, pp.398-400.	
	AQ	BRENNER, ; "Errors in genome annotation"; 1999, <u>Trends in Genetics</u> Vol.15, pp.132-133.	
	AR	CHARO, I.F., et al, "Molecular cloning and functional expression of two monocyte chemoattractant protein 1 receptors reveals alternative splicing of the carboxyl-terminal tails,"; 1994, <u>Proc. Natl. Acad. Sci. U.S.A.</u> , Vol. 91, pp. 2752-2756.	
	AS	CUSHING, et al. "Minimally modified low density lipoprotein induces monocyte chemotactic protein 1 in human endothelial cells and smooth muscle cells"; 1990, <u>Proc. Natl. Acad. Sci.</u> , Vol: 87, pp.5134-5138.	
	AT	DOERKS, et al.; "Protein annotation: detective work for function prediction"; 1998, <u>Trends in Genetics</u> , Vol. 14, pp.248-250.	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.



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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet **2** of **3****Complete if Known**

Application Number	10/791,166
Filing Date	March 1, 2004
First Named Inventor	Charo, Israel F.
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	02307K-085041US

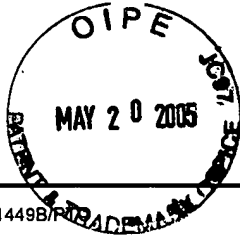
**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>2</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	AU		EDGINGTON, S.M., "Chemokines In Cardiovascular Disease";1993, <u>Bio/Technology</u> Vol. 11, pp.676-681.					
	AV		FAGGIOTTO, et al. "Studies of Hypercholesterolemia in the Nonhuman Primate-I. Changes that Lead to Fatty Streak Formation";1984, <u>Arteriosclerosis</u> Vol. 4, No. 4, pp. 323-340.					
	AW		FURUTANI, et al., "Cloning and sequencing of the cDNA for human monocyte chemotactic and activating factor (MCAF)";1989, <u>Biochemical and Biophysical Research Communications</u> Vol. 159, No. 1, pp.249-255.					
	AX		GAO, et al., "Structure and functional expression of the human macrophage inflammatory protein 1.alpha./RANTES receptor";1993, <u>The Journal of Experimental Medicine</u> Vol. 177, pp.1421-1427.					
	AY		GEARING, David P. et al. "Expression cloning of a receptor for human granulocyte-macrophage colony-stimulating factor";1989, <u>Science</u> , Vol. 8, No. 12, pp. 3667-3676.					
	AZ		HEMMERICH, et al.; "Identification of Residues in the Monocyte Chemotactic Protein-1 That Contact the MCP-1 Receptor, CCR2."; 1999, <u>Biochemistry</u> , Vol. 38, pp.13013-13025.					
	BA		HOLMES, et al. "Structure and functional expression of a human interleukin-8 receptor"; 1991, <u>Science</u> Vol. 253, pp.1278-1280.					
	BB		HUANG, et al.; "Absence of Monocyte Chemoattractant Protein 1 in Mice Leads to Decreased Local Macrophage Recruitment and Antigen-Specific T Helper Cell Type"; 2001, <u>J. Exp. Med.</u> Vol.193, No. 6., pp. 713-725.					
	BC		JOBLING et al.; "Analysis of structure and function of the B subunit of cholera toxin by the use of site-directed mutagenesis";1991, <u>Mol. Microbiol.</u> , Vol. 5, No. 7, pp.1755-1767.					
	BD		JONES et al., "Potential Role of Monocyte Chemoattractant Protein 1/JE in Monocyte/Macrophage-Dependent IgA Immune Complex Alveolitis in the Rat";1992, <u>The Journal of Immunology</u> Vol. 149, pp. 2147-2154.					
	BE		KOCH et al., "Enhanced production of monocyte chemoattractant protein-1 in rheumatoid arthritis"; 1992, <u>The Journal of Clinical Investigation, Inc.</u> , Vol. 90, pp.772-779.					
	BF		MACK, et al.; "Expression and Characterization of the Chemokine Receptors CCR2 and CCR5 in Mice."; 2001, <u>Journal of Immunology</u> , Vol. 166, pp. 4697-4704.					
	BG		MAUS, et al.; "The Role of CC Chemokine Receptor 2 in Alveolar Monocyte and Neutrophil Immigration in Intact Mice."; 2002, <u>Am. J. Crit. Care Med.</u> Vol.166, No. 3, pp. 268-273.					
	BH		MURPHY, P.M. et al., "Cloning of complementary DNA encoding a functional human interleukin-8 receptor";1991, <u>Science</u> Vol. 253, pp.1280-1283.					
	BI		NELKEN et al., "Monocyte chemoattractant protein-1 in human atheromatous plaques"; 1991, <u>J. Clin. Invest.</u> Vol. 88 pp.1121-1127.					
	BJ		NEOTE, et al., "Molecular cloning, functional expression, and signaling characteristics of a C-C Chemokine Receptor";1993, <u>Cell</u> Vol. 72, pp.415-425.					

Examiner  
SignatureDate  
Considered

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.



Substitute for form 1449B/P <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/791,166
				Filing Date	March 1, 2004
				First Named Inventor	Charo, Israel F.
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	3	of	3	Attorney Docket Number	02307K-085041US

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>2</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	BK	NGO, et al.; "The Protein Folding Problem and Tertiary Structure Prediction", 1994, pp. 492-495.						
	BL	OPPENHEIM, et al., "Properties of Genes and Gene Products of the intercrine family"; 1991, <u>Annual Review of Immunology</u> Vol. 9, pp. 620-648.						
	BM	REECK, et al.;"Homology in Proteins and Nucleic Acids: A Terminology Muddle and a Way out of It,"; 1987, <u>Cell</u> , Vol. 50, pp.667.						
	BN	ROLLINS, B.J. et al.;"Suppression of tumor formation in vivo by expression of the JE gene in malignant cells"; 1991, <u>Molecular and Cellular Biology</u> Vol. 11, No. 6, pp.3125-3131.						
	BO	SKOLNICK, et al.; "From genes to protein structure and function: novel applications of computational approaches in the genomic era"; 2000, <u>Trends in Biotech.</u> Vol. 18, No. 1, pp. 34-39.						
	BP	SMITH, et al.; "The challenges of genome sequence annotation or "The devil is in the details"";1997, <u>Nature Biotechnology</u> Vol. 15, pp.1222-1223.						
	BQ	VAN RIPER et al.;"Characterization and Species Distribution of High Affinity GTP-coupled Receptors for Human Rantes and Monocyte Chemoattractant Protein 1"; 1993, <u>J. Exp. Med.</u> Vol.177, pp.851-856.						
	BR	WALTER, et al.;"Macrophage Infiltration and Growth of Sarcoma Clones Expressing Different Amounts of Monocyte Chemotactic Protein/JE"; 1991, <u>Int. J. Cancer</u> Vol. 49, pp.431-435.						
	BS	WANG, et al.;"Identification of RANTES Receptors on Human MonocyticCells: Competition for Binding and Desensitization by Homologous Chemotactic .Cytokines";1993, <u>The Journal of Experimental Medicine</u> Vol. 177, pp.699-705.						
	BT	WATSON, S. et al.; "The G-Protein Linked Receptor-Facts Book";1994, London, Academic Press, Introduction, pp. 2-6.						
	BU	WELLS, James A.; "Additivity of Mutational Effects in Proteins"; 1990, <u>Biochemistry</u> Vol 29, No. 37, pp. 8509-8517.						
	BV	WOLPE, S.D. et al.;"Macrophage inflammatory proteins 1 and 2: members of a novel superfamily of cytokines";1989, <u>The FASEB Journal</u> Vol. 3, pp.2565-2573.						
	BW	YAMAGAMI, S. et al.;"cDNA cloning and functional expression of a human monocyte chemoattractant protein 1 receptor,"; 1994, <u>Biochem. Biophys. Res. Com.</u> , Vol. 202, No. 2 pp. 1156-1162.						
	BX	YLA-HERTTUALA, et al.;"Expression of monocyte chemoattractant protein 1 in macrophage-rich areas of human and rabbit atherosclerotic lesions";1991, <u>Proc. Natl. Acad. Sci.</u> Vol. 88, pp. 5252-5256.						
	BY	YOSHIMURA, Teizo et al.; "Identification of High Affinity Receptors for Human Monocyte Chemoattractant Protein-1 on Human Monocytes"; 1990, <u>J. Immunology</u> Vol.145, pp.292-297.						
	BZ	YOSHIMURA, et al.;"Purification and amino acid analysis of two human glioma-derived monocyte chemoattractants";1989, <u>The Journal of Experimental Medicine</u> , Vol.169, pp.1449-1459.						

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